

Missouri Wildlife Habitat Appraisal Guide Marsh Community Model

Applicant(s):**Date:****Farm Number:****Tract Number:****Field Number(s):****County:**

Instructions: Answer each of the questions (1 - 9) below by circling the appropriate points for both the existing and planned conditions.

**Points if
Existing**

**Points if
Planned**

Water Regime

(1)	Gradual drying with 50 to 75% of water remaining by August 1	10	10
	Gradual drying with 25 to 50% of water remaining by August 1	6	6
	Gradual drying with less than 25% or more than 75% of water remaining by August 1	4	4
	Stable water	2	2
	Rapid drying; or no water after June 1	0	0
Water Regime Points			

Water Depth

(2)	4" to 24" April through August; Percent of wetland covered by mid-summer		
	50 to 75%	10	10
	25 to 50%	6	6
	Less than 25%	4	4
	More than 75%	0	0
Water Depth Points			

Percent of Wetland Covered by Native Permanent Emergent Vegetation

(3)	For example burreed, arrowhead, sedges, spikerushes, softstem bulrush, cattails, great river bulrush, and water smartweed.		
	50 to 90%	10	10
	25 to 50% or more than 90%	5	5
	Less than 25%	0	0
Percent of Wetland Covered by Native Permanent Emergent Vegetation Points			

Grazing or Haying Use

(4)	None	10	10
	Light to moderate	5	5
	Heavy	0	0
Grazing or Haying Use Points			

Surrounding Landscape

(5)	Percent of forested land within 1/2 mile radius of assessment site		
	Less than 10%	10	10
	10 to 25%	6	6
	25 to 50%	4	4
	50 to 75%	2	2
	More than 75%	0	0
Surrounding Landscape Points			

Woody Invasion

(6)	Percent of marsh coverage		
	Less than 10%	10	10
	10 to 25%	6	6
	25 to 50%	4	4
	50 to 75%	2	2
	More than 75%	0	0
Woody Invasion Points			

Missouri Marsh Community Model

Buffer Vegetation

(7)	Cover surrounding marsh within 50 yard radius. NHV = Native Herbaceous Vegetation		
	More than 50% NHV, no cropping	10	10
	25 to 50% NHV, no cropping, or more than 50% NHV and less than 25% cropping	6	6
	25 to 50% NHV, less than 25% cropping, or more than 50% NHV and more than 25% cropping	4	4
	Less than 25% NHV, less than 25% cropping	2	2
	Less than 25% NHV, more than 25% cropping	0	0
Buffer Vegetation Points			

Reed Canarygrass Invasion

(8)	In marsh and within a 50 yard radius		
	None	10	10
	Rare to occasional	5	5
	Common to abundant	0	0
Reed Canarygrass Invasion Points			

Diversity of Native Perennial Emergent Wetland Plants

(9)	More than 8 species	10	10
	4 to 8 species	5	5
	Less than 4 species	0	0
Diversity of Native Perennial Emergent Wetland Plants Points			

Total Points Planned and Existing (Maximum score possible is 90) =

Scoring

(10) Existing Index = Total Existing Points/90 (90 is the maximum possible score)

Total existing points =

Existing Index =

(11) Planned Index = Total Planned Score/90 (90 is the maximum possible score)

Total planned score =

Planned Community Type Index =

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